SHEET

of

9256

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE
the Paper North Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number COMPLETE IF KNOWN stitute for form 1449A/PTO 10/665,948 Application Number MAY 0 5 2004 6529 Confirmation Number ATION DISCLOSURE September 18, 2003 Filing Date MENT BY APPLICANT John D. Tanner First Named Inventor (use as many sheets as necessary) Group Art Unit 1723 Examiner Name

Attorney Docket Number

		DOCUMENT NUMBER	U. S. PATENT DO		Classification Pages, Columns, Lines Where	
EXAMINER INITIALS*	Cite No.1	Number - Kind Code ² (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevan	
Q W	1	US-5114572	05-19-1992	Hunter, et al.		
BK BK	2	US-5336406	08-09-1994	Stanford, et al.		
<u> </u>	3	US-2002/0100720	08-01-2002	Jainek	<u> </u>	
 -	4	US-5591332	01-07-1997	Reid, et al.		
+	5	US-5753107	05-19-1998	Magnusson, et al.		
	6	US-5695168	12-09-1997	Williams		
 	7	US-4857189	08-15-1989	Thomsen, et al.		
		US-5456830	10-10-1995	Stanford, et al.		
	8 9	US-2002/0158006	10-31-2002	Thomas	<u> </u>	
		US-2002/0036162	03-28-2002	Magnusson, et al.	<u> </u>	
	10	US-4115201	09-19-1978	Malec	<u> </u>	
	11	US-4783271	11-08-1988	Silverwater		
	12		03-30-1993	Ponce		
	13	US-5198107 US-6264833	07-24-2001	Reamsnyder, et al.		
	14_	US-6027644	02-22-2000	Magnusson, et al.		
	15	US-5922196	07-13-1999	Baumann		
	16		01-23-1986	Stanford, et al.		
	17	US-5486288	04-05-1988	Petrucci, et al.		
	18	US-4735716	08-14-1990	Petrucci, et al.	l	
	19	US-4948505	02-27-2001	Magnusson, et al.		
	20	US-6193884	03-29-1870	Butler		
	21	US-101224	08-15-1871	Andrews		
	22	US-117960	06-24-1873	Richardson, et al.		
	23	US-140165	08-22-1882	Walsh		
	24	US-263266	03-31-1903	Scherer		
	25	US-724210	06-07-1904	Backman		
	26	US-761643	07-05-1904	Zessin		
	27	US-764327	05-25-1915	Trucano		
	28	US-1140633		Keszthelyi		
	29	US-1474905	11-20-1923	Boynton		
	30	US-1884551	10-25-1932 06-11-1946	Siebels	 	
	31	US-2401974		Jones		
	32	US-2435941	02-10-1948	LeClair		
	33	US-2471069	05-24-1949	Parsons		
	34	US-2475635	07-12-1949	Elliott		
	35	US-2727759	12-20-1955	Grable		
	36	US-2850264	09-02-1958	Johnson	 	
	37	US-2951515	09-06-1960	Wells	 	
	38	US-3065807	11-27-1962	Fromm	 	
	39	US-3171448	03-02-1965	Abbey, et al.	 	
	40	US-3202442	08-24-1965	Henderson		
\top	41	US-3208539	09-28-1965		+	
	42	US-3297100	01-10-1967	Crews		
	43		05-26-1970	Limandri	+	
	44	US-3638970	02-01-1972	Sandquist, et al.	+	
	45	US-3715032	02-06-1973	Nicko	 	
	46	US-3753287	08-21-1973	Ziemek, et al.	- \	
-1	47	US-3768476	10-30-1973	Raitto		
_ + _	48		02-26-1974	McPhee		

Classitication

	T 40 T	US-3980112	09-14-1976	Basham		
<u>BK</u>		US-4022205	05-10-1977	Tenczar		
		US-4026581	05-21-1977	Pasbrig		
		US-4053247	10-11-1977	Marsh, Jr.		1
			08-15-1978	Asztalos, et al.		
		US-4106796	04-17-1979	Morris		
		US-4149739	11-04-1980	Wise		
		US-4231361		Rogers		
		US-4354490	10-19-1982	Fruck		
		US-4400019	08-23-1983			
	58	US-4433973	02-28-1984	Kurtz, et al.		
		US-4508135	04-02-1985	Schlesch, et al.		
		US-4526572	07-02-1985	Donnan, et al.	 	
		US-4540489	09-10-1985	Barnard	 	
		US-4551146	11-05-1985	Rogers	 	
		US-4613166	09-23-1986	Schmidtchen	1	
-+			10-28-1986	Potolsky, et al.	1	
		US-4619640	01-13-1987	Christopherson, et al.		
		US-4636204	04-07-1987	Rogers		
		US-4655762		Elsworth, et al.		
		US-4708371	11-24-1987	Schaupp	1	
	68	US-4724074	02-09-1988		 	
	69	US-4732414	03-22-1988	Inaba	 	
		US-4921282	05-01-1990	Meisinger		
 -		US-4922971	05-08-1990	Grantham	├	
\vdash		US-4925218	05-15-1990	Kunz, et al.	 	
├		US-4989636	02-05-1991	Hunter, et al.		
├			04-30-1991	Porte	li	
 		US-5011193	05-14-1991	Mathieu, et al.		
	75	US-5015374	07-02-1991	Jaggi		
	76	US-5027855		Ho		
	77	US-5056831	10-15-1991	Grayson, et al.	 	
	78	US-5082557	01-21-1992		1	
	79	US-5087086	02-11-1992	Snedeker	+	
	80	US-5114572	05-19-1992	Hunter, et al.		
	81	US-5129423	07-14-1992	Fournier, et al.		<u>`</u>
	82	US-5176415	01-05-1993	Choksi		
 		US-5186502	02-16-1993	Martin		
	83		04-20-1993	Hansen		
	84	US-5203384	08-31-1993	Göcking, et al.		
	85	US-5240289	12-28-1993	Burrows		
	86	US-5273083		Choksi		
	87	US-5286067	02-15-1994	Dalton		
	88	US-5312377	05-17-1994	Stanford, et al.		
	89	US-5336406	08-09-1994		+	
	90	US-5449204	09-12-1995	Greene, et al.		
 	91	US-5456830	10-10-1995	Stanford, et al.		
 	92	US-5479970	01-02-1996	Trani		
 - -	93	US-5520228	05-28-1996	Fink, Jr., et al.	+	
	94	US-5547231	08-20-1996	Sharp		
 			02-04-1997	Reidel	\bot	
 	95	US-5598877	06-10-1997	Wasser		
	96	US-5636875	05-05-1998	Webb		
	97	US-5746454		Patton, et al.		
	98	US-5753111	05-19-1998	Gundrum, et al.		
	99	US-5891334	04-06-1999	Rocha	 	
	100	US-5925250	07-20-1999		- -	
 	101	US-5927762	07-27-1999	Webb	- -	
 	102	US-5931184	08-03-1999	Armenia, et al.		
 	103	US-5934712	08-10-1999	Friedrich, et al.		
 	103	US-5988690	11-23-1999	Bogard		
 		US-5996653	12-07-1999	Piccinino, Jr.		
 	105		12-28-1999	Kazarian		
 	106	US-6007107	02-22-2000	Magnusson, et al.		
	107	US-6027644		Clack et al.		
	108	US-6051144	04-18-2000	Gerth	1	
	109	US-6062608	05-16-2000			
	110	US-6076862	06-20-2000	Barth, et al.		1
	111	US-6170522	01-09-2001	Tanida	- 	
1	112	US-6179001	01-30-2001	Schutz	- 	
	113	US-6234538	05-22-2001	Lauer	_ -\\-	/
 	114	US-6245229	06-12-2001	Kool, et al.		/
		US-6258269	06-10-2001	Knight	_\/	
1 1	115	US-6325115	12-04-2001	Cowland, et al.		
	116					

Closomatin

17 U.S6418987 07-16-2002 Oplastico Oplasti					0.1	T	
118 US-644261 10:15-2002 Uyesvin, et al. 119 US-64712949 10:25-2002 Levis 120 US-6000002040 02:2-12-002 Positive 121 US-2000002040 02:2-12-002 Positive 122 US-105-2000002040 02:2-12-002 Positive 122 US-105-2000002040 02:2-12-002 Positive 123 US-105-200000 09:15-1339 Konnedg 124 US-105-2000000000 09:15-1339 Konnedg 125 US-117565 11:14-1399 Konher 126 US-107-130 04-22-1941 Krisisi, dr. 127 US-108-1316 07:14-1941 Rolly 128 US-108-13177 07:28-1942 Gross 129 US-108-13177 07:28-1942 Gross 130 US-108-130000 00-21-1942 Gross 131 US-108-13177 07:28-1942 Gross 132 US-108-13177 07:28-1942 Gross 133 US-108-130000 00-21-1942 Gross 134 US-108-1300000 00-21-1943 Krisisi, dr. 135 US-108-13177 00-22-1943 Krisisi, dr. 136 US-108-13177 00-22-1943 Krisisi, dr. 137 US-108-13177 00-22-1943 Krisisi, dr. 138 US-108-13177 00-22-1943 Krisisi, dr. 139 US-108-13177 00-22-1943 Krisisi, dr. 130 US-108-13000000000000000000000000000000000	BK	117	US-6418987				1
119 US-002/000450 02-21-2002 Ishwata 121 US-2002/0005195 07-19-2002 Ponhibr 121 US-2002/0005195 07-19-2002 Ponhibr 121 US-2002/0005195 07-19-2002 Ponhibr 121 US-10206484 02-27-2001 Magnuster, et al. 123 USEINE-H1157 04-06-1993 Komeng 124 USD-118209 06-1993 Komeng 124 USD-118209 06-1993 Komeng 125 USD-117955 07-14-1941 Roffy 125 USD-12795 07-14-1941 Roffy 126 USD-12795 07-14-1941 Roffy 127 USD-128795 07-14-1941 Roffy 128 USD-128795 07-20-1942 2uckarmann 128 USD-128797 07-20-1942 2uckarmann 129 USD-128177 07-28-1942 2uckarmann 139 USD-128045 07-10-1943 Kraissl, Jr. 139 USD-128045 07-20-1943 Kraissl, Jr. 139 USD-128046 08-23-1960 Sicand 134 USD-128165 08-23-1960 Sicand 134 USD-128165 08-23-1960 Sicand 134 USD-128165 08-23-1960 Sicand 136 USD-128165 08-23-1960 Sicand 136 USD-128165 08-23-1960 Sicand 136 USD-128165 08-15-1964 Sunstrom, et al. 139 USD-202214 08-23-1966 Sunstrom, et al. 139 USD-202214 08-23-1966 Sunstrom, et al. 139 USD-202215 09-24-1970 Broyhill 144 USD-202063 09-24-1970 Broyhill 144 USD-202063 09-24-1970 Broyhill 145 USD-217647 08-12-1970 Broyhill 146 USD-227666 O7-44-1972 Turturo 146 USD-227666 O7-44-1972 Turturo 147 USD-224105 O7-44-1972 Turturo 148 USD-22606 O7-44-1972 Turturo 148 USD-227666 O7-44-1972 UsD-227676 O7-44-1972 UsD-227676 O7-44-19		118	US-6464261			 	
120		119	US-6471249			 	
121 US-20020093195			US-2002/0020450	02-21-2002			
122				07-18-2002			-
133 USD-19757 O-1-0-1993 Vanou, et al.	<i> </i>			02-27-2001	Magnusson, et al.	<u> </u>	ļ
194						l	
128	 				Kornega		
128 USD 128731							
127 155 128316	l l	125					
122 USD-123810		126					
128 USD-133177		127	USD-128316				
192 USD-133177 07-28-1942 Gross 193 USD-136021 07-20-1943 Kraissi, Jr. 131 USD-145545 01-15-1946 Pond, et al. 132 USD-170472 09-22-1953 Monsarrat 133 USD-18688 08-22-1960 Sicard 133 USD-18688 08-22-1960 Sicard 134 USD-195874 08-06-1963 Rossaen 135 USD-199153 05-05-1964 Baker, et al. 135 USD-199139 09-15-1964 Kudaty Usd-199139 09-15-1964 Kudaty Usd-199139 09-15-1964 Vander Pyl 137 USD-199918 12-29-1964 Vander Pyl Peters 139 USD-202147 08-31-1965 Peters 139 USD-202247 08-31-1965 Peters 139 USD-205281 11-22-1966 Sunstrom, et al. 140 USD-205752 09-26-1967 Payrie 141 USD-205752 09-26-1967 Payrie 141 USD-21697 03-24-1970 Greene 141 USD-217547 05-12-1970 Broyhill USD-20583 03-23-1971 Hughes 142 USD-217818 06-16-1970 Truesdell 144 USD-20263 03-23-1971 Hughes 145 USD-221850 09-14-1971 Anderson 146 USD-22564 11-23-1971 Rossa 147 USD-2264106 07-04-1972 Truttro 147 USD-226106 07-04-1972 Truttro 147 USD-226106 07-04-1972 Truttro 148 USD-227565 07-03-1973 Ehret 149 USD-227566 07-24-1973 Marinez 149 USD-227566 07-24-1975 USD-226766 07-24-1975 USD-226766 07-24-1975 USD-226766 07-24-1975 USD-226766 07-24-1975 USD-226766		128	USD-132610			 	
1930 USD-136021 07-20-1943 Kraissi, Jr.			USD-133177	07-28-1942		 	
131 USD-143545				07-20-1943		ļ	
132 USD-170472	 			01-15-1946	Pond, et al.	ļ	
133 USD-18888				09-22-1953	Monsarrat		
134 USD-198874	 				Sicard		
135 USD-198133	<u> </u>				Rosaen		
138 USD-199139 12-29-1964					Baker, et al.		
136 USD-19978 12-29-1994							
137 USD-19970						1 1	
138 USD-208281						 	
139 050-208752 09-28-1967 Payne		138	USD-202147			 	
140 USD-208752 09-26-1967 Payrie		139	USD-206281			 	
141 USD-216978 03-24-1970 Greene	$\overline{}$		USD-208752			╅━━━╅	
142 USD-217547 05-12-1970 Broyhill	 			03-24-1970		+	
143 USD-217818 O6-16-1970 Truesdell	 					┼ ──┤	
144 USD-22083 03-23-1971 Hughes 145 USD-221850 09-14-1971 Anderson 146 USD-22841 11-23-1971 Roosa 147 USD-2284105 07-04-1972 Turturro 148 USD-227865 07-03-1973 Ehret 149 USD-227866 07-24-1973 Marrinez 149 USD-230386 02-12-1974 Mann 150 USD-230358 03-12-1974 Lents 151 USD-230735 03-12-1974 Lents 151 USD-230735 03-12-1974 Lents 152 USD-23049 03-19-1975 Lieberman 153 USD-234497 01-28-1975 Lieberman 154 USD-234496 02-18-1975 Holben, et al. 155 USD-23543 05-20-1975 Ehret 156 USD-23542 06-24-1975 Blocker 156 USD-23542 06-24-1975 Blocker 156 USD-235542 06-24-1975 Blocker 157 USD-236265 08-12-1975 Blackstone 158 USD-23000 06-18-1976 Gelman, et al. 158 USD-241936 10-26-1976 Gelman, et al. 160 USD-241936 10-26-1976 Corder, et al. 161 USD-242043 10-26-1976 Corder, et al. 162 USD-24299 11-09-1976 Corder, et al. 163 USD-246376 11-98-1977 Pail 165 USD-246376 11-19-1977 Rosaen 166 USD-248485 07-11-1978 Strauss, et al. 167 USD-2503124 10-31-1976 Mackay, et al. 168 USD-246376 11-18-1977 Pail 168 USD-246376 11-18-1977 Pail 168 USD-246376 11-18-1977 Rosaen 167 USD-250415 09-05-1978 Mackay, et al. 167 USD-250415 09-05-1978 Mackay, et al. 169 USD-250324 09-19-1978 Aldridge, et al. 169 USD-251380 03-20-1979 Casamijana 170 USD-250415 03-20-1979 Casamijana 171 USD-250415 03-20-1979 Casamijana 172 USD-250415 03-20-1979 Casamijana 173 USD-250415 03-20-1979 Casamijana 174 USD-250415 03-20-1979 Casamijana 175 USD-250415 03-20-1979 Casamijana 176 USD-250415 03-20-1979 Casamijana 177 USD-250415				06-16-1970	Truesdell	1	
145	 				Hughes	1	
146 USD-222641 11-23-1971 Roosa 147 USD-224105 07-04-1972 Turturro 148 USD-227655 07-03-1973 Ehret 149 USD-227686 07-24-1973 Marline2 150 USD-230358 02-12-1974 Mann 151 USD-230355 03-12-1974 Lents 151 USD-230735 03-12-1974 Lents 152 USD-230849 03-19-1974 Takehayasi 153 USD-230849 03-19-1974 Takehayasi 153 USD-230849 01-28-1975 Lieberman 154 USD-234197 01-28-1975 Holben, et al. 155 USD-235412 06-24-1975 Holben, et al. 155 USD-235412 06-24-1975 Blocker 156 USD-235542 06-24-1975 Blocker 157 USD-235625 08-12-1975 Blocker 158 USD-235143 05-20-1975 Blocker 158 USD-235172 12-23-1975 Blackstone 158 USD-23000 06-15-1976 Gelman, et al. 160 USD-241936 10-19-1976 Rosaen 161 USD-241936 10-19-1976 Rosaen 161 USD-242043 10-26-1976 Corder, et al. 162 USD-242043 11-09-1976 Corder, et al. 163 USD-243545 02-22-1977 Pall 164 USD-246376 11-11-1977 Rosaen 165 USD-248376 11-11-1977 Rosaen 166 USD-248365 07-11-1978 Strauss, et al. 167 USD-248485 07-11-1978 Strauss, et al. 167 USD-250415 11-28-1978 Rosaen 170 USD-250315 11-28-1978 Rosaen 170 USD-250315 11-28-1978 Rosaen 171 USD-253380 03-20-1979 Casamitjana 172 USD-253380 03-20-1979 Casamitjana 173 USD-251380 03-20-1979 Casamitjana 175 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 176 USD-250415 03-23-1980 Kronsbein 177 USD-250415 03-23-1980 Kronsbein 177 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 175 USD-250415 03-23-1980 Kronsbein 176 USD-250450 03-20-1980 Kronsbein 177 USD-250450 03-20-1980 Kronsbein 178 USD-250450 03-20-1980 Kronsbein 178 USD-250450 03-20-1980					Anderson		
146 USD-22405 Urburne Urburn					Roosa	•	
148 USD-227865 07-03-1973 Ehret 148 USD-227866 07-24-1973 Martinez 150 USD-230358 02-12-1974 Mann 151 USD-230358 02-12-1974 Lents 151 USD-230735 03-12-1974 Lents 152 USD-230849 03-19-1974 Takehayasi 152 USD-230849 03-19-1974 Takehayasi 153 USD-234197 01-28-1975 Holben, et al. 154 USD-234356 02-18-1975 Holben, et al. 155 USD-235143 05-20-1975 Ehret 155 USD-235143 05-20-1975 Dussardier 156 USD-235542 06-24-1975 Dussardier 157 USD-236265 08-12-1975 Dussardier 158 USD-238172 12-23-1975 Blackstone 158 USD-238172 12-23-1975 Blackstone 158 USD-240300 06-15-1976 Gelman, et al. 160 USD-241936 10-19-1976 Rosaen 161 USD-240304 10-26-1976 Corder, et al. 162 USD-242249 11-09-1976 Corder, et al. 162 USD-242249 11-09-1976 Corder, et al. 163 USD-243458 02-22-1977 Pall 164 USD-246109 10-18-1977 Rosaen 165 USD-24885 07-11-1978 Mackay, et al. 166 USD-249542 09-95-1978 Mackay, et al. 169 USD-249542 09-95-1978 Mackay, et al. 169 USD-250415 11-28-1978 Rosaen, et al. 170 USD-250415 11-28-1978 Rosaen, et al. 171 USD-251300 03-20-1979 Casamitjana 172 USD-250415 11-28-1978 Rosaen, et al. 173 USD-250415 12-28-1978 Wiccock 174 USD-250444 09-16-1980 Wiccock 175 USD-269294 08-07-1983 Rakocy, et al. 177 USD-250415 03-20-1979 Casamitjana 178 USD-25045 05-20-1980 Wiccock 179 USD-25045 03-20-1979 Casamitjana 179 USD-25045 03-20-1979 Casamitjana 179 USD-25045 03-20-1980 Wiccock 179 USD-269294 08-07-1983 Rakocy, et al. 180 USD-271325 11-08-1983 Gedye 182 USD-271325 11-08-1983 Gedye 182 USD-271325 11-08-1983 Mayer 181 USD-271325 11-08-1983 Mayer 183 USD-271330 04-03-1984 Rouch 181 USD-271330 04-03-1984							
148 USD-227886 07-24-1973 Martinez 149 USD-230358 02-12-1974 Mann 151 USD-230358 03-12-1974 Lents 152 USD-230849 03-19-1974 Takehayasi 153 USD-230849 03-19-1975 Lieberman 154 USD-230456 02-18-1975 Lieberman 155 USD-2304197 01-28-1975 Holben, et al. 156 USD-234566 02-18-1975 Holben, et al. 157 USD-235542 06-24-1975 Blocker 158 USD-235542 06-24-1975 Blocker 159 USD-235542 06-24-1975 Dussardier 159 USD-2306265 08-12-1975 Blackstone 159 USD-2306265 08-12-1975 Blackstone 159 USD-230300 06-15-1976 Gelman, et al. 160 USD-241936 10-19-1976 Rosaen 161 USD-242043 10-26-1976 Corder, et al. 162 USD-24249 11-09-1976 Corder, et al. 163 USD-243458 02-22-1977 Pall 164 USD-246196 11-18-1977 Pall 165 USD-246376 11-15-1977 Pall 166 USD-246376 11-15-1977 Pall 168 USD-246376 11-15-1978 Strauss, et al. 169 USD-250124 10-31-1978 Glaspie, et al. 169 USD-250124 10-31-1978 Rosaen, et al. 170 USD-250115 11-28-1978 Rosaen, et al. 171 USD-251380 03-20-1979 Casamitjana 172 USD-254145 02-05-1980 Wilcock 173 USD-254145 02-05-1980 Wilcock 174 USD-263496 03-03-20-1979 Casamitjana 175 USD-263496 03-03-20-1979 Casamitjana 175 USD-254145 02-05-1980 Wilcock 176 USD-263195 08-11-1981 Hein, et al. 177 USD-263496 03-03-21-1982 Kimball, et al. 178 USD-254355 11-08-1983 Gedye 179 USD-271325 11-08-1983 Gedye 180 USD-271325 11-08-1984 Rouch	<u> </u>	147					
150 USD-230358 02-12-1974 Lents		148					
151 USD-230735		149	USD-227886				
152 USD-230849		150	USD-230358			. 	
152 USD-230849	 	151	USD-230735				
153 USD-234197				03-19-1974			
154 USD-234356 O2-18-1975 Holben, et al.	 	_		01-28-1975	Lieberman		
155 USD-235143	 - - - - - 			02-18-1975	Holben, et al.		
156 USD-235542 06-24-1975 Blocker	 - 				Ehret		
157 USD-236265	 				Blocker		
157 USD-23625	<u> </u>						
158 USD-240300						-	
160 USD-241936		158				1	
160							
162 USD-242249		160	USD-241936			7	
162 USD-242249			USD-242043			. 	
163 USD-243458 02-22-1977 Pall		_					
164 USD-246109	 			02-22-1977		+	
165 USD-246376	 			10-18-1977			
166 USD-248485 07-11-1978 Strauss, et al. 167 USD-249275 09-05-1978 Mackay, et al. 168 USD-249542 09-19-1978 Aldridge, et al. 169 USD-250124 10-31-1978 Glaspie, et al. 170 USD-250415 11-28-1978 Rosaen, et al. 171 USD-251380 03-20-1979 Emery 172 USD-253715 12-18-1979 Emery 173 USD-254145 02-05-1980 Wilcock 174 USD-255045 05-20-1980 Kronsbein 175 USD-256944 09-16-1980 Fox, Jr. 176 USD-260175 08-11-1981 Hein, et al. 177 USD-263496 03-23-1982 Kimball, et al. 178 USD-270947 10-11-1983 Mehra, et al. 180 USD-271235 11-01-1983 Gedye 181 USD-271325 11-08-1983 Gedye 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch 184 USD-273330 Da-03-1984 Rouch 184 USD-273330 Da-03-1984 Rouch 185 USD-273330 Da-03-1984 Rouch 185 USD-273330 Da-03-1984 Rouch 185 USD-273330 Da-03-1984 Rouch 185 USD-273330 Da-03-1984 Rouch 186 USD-273330 Da-03-1984 Rouch 187 USD-273330 Da-03-1984 Rouch 188 USD-273330 Da-03-1984 Rouch 189 USD-273330 Da-03-1984 Rouch 180 USD-273330 Da-03-1984 Rouch 1	 			11-15-1977			
167 USD-249275 09-05-1978 Mackay, et al. 168 USD-249542 09-19-1978 Aldridge, et al. 169 USD-250124 10-31-1978 Glaspie, et al. 170 USD-250415 11-28-1978 Rosaen, et al. 171 USD-251380 03-20-1979 Casamitjana 172 USD-253715 12-18-1979 Emery 173 USD-254145 02-05-1980 Wilcock 174 USD-255045 05-20-1980 Kronsbein 175 USD-256944 09-16-1980 Fox, Jr. 176 USD-260175 08-11-1981 Hein, et al. 177 USD-263496 03-23-1982 Kimball, et al. 178 USD-269294 06-07-1983 Rakocy, et al. 179 USD-270947 10-11-1983 Ward 180 USD-271235 11-01-1983 Gedye 181 USD-271325 11-08-1983 Gedye 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch Rakocy, et al. Rakocy, et a	 - -				Strauss, et al.		
167 USD-249745	 				Mackay, et al.	1	
168 USD-249342	 						
170							
170 USD-250415 17-20-1979 Casamitjana						1 1	
171 USD-251380 USD-251380 USD-251380 USD-251380 USD-251380 USD-2514145 USD-25045 USD-25045 USD-256944 USD-260175 USD-260175						1	
172 USD-253713 USD-254145 USD-254145 USD-255045 USD-256944 USD-256944 USD-260175 USD-260175 USD-263496 USD-263496 USD-263496 USD-263496 USD-263496 USD-263496 USD-263496 USD-263496 USD-263496 USD-271983 USD-270947 USD-270947		171	USD-251380			1	
173 USD-254145 02-05-1980 Wilcock 174 USD-255045 05-20-1980 Kronsbein 175 USD-26944 09-16-1980 Fox, Jr. 176 USD-260175 08-11-1981 Hein, et al. 177 USD-263496 03-23-1982 Kimball, et al. 178 USD-269294 06-07-1983 Rakocy, et al. 179 USD-270947 10-11-1983 Mehra, et al. 180 USD-271235 11-01-1983 Ward 181 USD-271325 11-08-1983 Gedye 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch Palency et al.		172				- - 	
174 USD-255045 05-20-1980 Kronsbein 175 USD-256944 09-16-1980 Fox, Jr. 176 USD-260175 08-11-1981 Hein, et al. 177 USD-263496 03-23-1982 Kimball, et al. 178 USD-269294 06-07-1983 Rakocy, et al. 179 USD-270947 10-11-1983 Mehra, et al. 180 USD-271235 11-01-1983 Ward 181 USD-271325 11-08-1983 Gedye 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch	- - - - - - - - - - 						
175 USD-256944 09-16-1980 Fox, Jr. 176 USD-260175 08-11-1981 Hein, et al. 177 USD-263496 03-23-1982 Kimball, et al. 178 USD-269294 06-07-1983 Rakocy, et al. 179 USD-270947 10-11-1983 Mehra, et al. 180 USD-271235 11-01-1983 Ward 181 USD-271325 11-08-1983 Gedye 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch	 						
176 USD-260175	 			09-16-1980			
177	 				Hein, et al.		
178 USD-269294 06-07-1983 Rakocy, et al.	 	_			Kimball, et al.		
176 USD-209234 10-11-1983 Mehra, et al.	 			_1			
180 USD-271235 11-01-1983 Ward	 -						7
180 USD-271235 11-08-1983 Gedye							/
181 USD-271323 11-15-1983 Mayer 182 USD-271416 11-15-1983 Mayer 183 USD-273330 04-03-1984 Rouch						- 	7
183 USD-273330 04-03-1984 Rouch						1 1	/
183 USD-273330 Pakery et al		182				- \\/	
		183	USD-273330			- - V	
		184		06-26-1984	накосу, ет ат.		

Classiticator

- 200 -		USD-274745	07-17-1984	Want			
BK	185		07-31-1984	Joe			
	186	USD-274930	08-28-1984	Stanley			<u>]</u>
	187	USD-275309	08-28-1984	Stanley			
	188	USD-275310	09-11-1984	Johnson			
	189	USD-275513		Grube			
	190	USD-277305	01-22-1985				1
	191	USD-278082	03-19-1985	Cowley	 		
	192	USD-278650	04-30-1985	Slovak, et al.	├		
	193	USD-284300	06-17-1986	Hodgkins	├		
	194	USD-285958	09-30-1986	Koizumi, et al.	├		
		USD-288707	03-10-1987	Macevicz, et al.	↓		
	195		04-14-1987	Mezey, et al.	<u> </u>		
	196	USD-289317	08-25-1987	Robertson			
	197	USD-291593	02-09-1988	Meissner			
	198	USD-294167		Ogasawara, et al.			
	199	USD-295674	05-10-1988		1		
	200	USD-296000	05-31-1988	Padilla	+		
	201	USD-296460	06-28-1988	Clack	┼─		
	202	USD-296463	06-28-1988	Padilla	┼		
	203	USD-296925	07-26-1988	Groezinger, et al.	↓	∸	
		USD-297349	08-23-1988	Kronsbein	—	-+	
	204	USD-304363	10-31-1989	Ruesch	1		
	205		02-06-1990	Sone			
	206	USD-305934	02-03-1390	Whiting			
	207	USD-306340		Kott	1	-	
	208	USD-306640	03-13-1990	Petrucci, et al.	1	. · †	
	209	USD-306754	03-20-1990		+-		
	210	USD-306755	03-20-1990	Petrucci, et al.	+-		
	211	USD-307173	04-10-1990	Boehnke	+		
	212	USD-307933	05-15-1990	Baer		-+	
├──┼ ─	213	USD-309487	07-24-1990	Lieberman	↓_		
			05-22-1990	Geneve, et al.			
	214		07-24-1990	Boehnke	<u> </u>		
	215		07-24-1990	Riley	T		
	216	USD-309494		Sedman			
	217		09-18-1990	Woodruff	1		
	218	USD-311570	10-23-1990		+-		
<u> </u>	219	USD-312863	12-11-1990	Hankammer	+	- +-	
-	220		01-08-1991	Luzenberg, Jr.			
	221		01-15-1991	Petrucci, et al.	-		
	222		01-29-1991	Devine, et al.		- 	
			02-12-1991	Kapec, et al.			
<u> </u>	223		02-12-1991	Pepper			
L	224		02-19-1991	Petrucci, et al.	T		
	225		02-26-1991	Petrucci, et al.	T^-		
	226			Strand, et al.	\neg	-1	
	227		03-26-1991	Judd, Jr. (deceased)	-		
	228	USD-316290	04-16-1991		\dashv		
	229	USD-316740	05-07-1991	Kopf	+-		
 -	230	USD-316741	05-07-1991	Kurth, et al.	-	-+-	
	231		05-21-1991	Petrucci, et al.			
	232		06-04-1991	ito, et al.	┵		
		USD-318091	07-09-1991	Sherman	_		
			07-09-1991	Ferguson			
\vdash	234		07-09-1991	Ferguson			
	235		07-09-1991	Sherman		I	
	236	USD-318094		Miyake, et al.	\top	T	
	237		07-30-1991	Spokoiny	\top	1	
		USD-319288	08-20-1991		+	+-	
 	239		09-10-1991	Geneve, et al.	\dashv	+	
 	240		09-17-1991	Meissner		+	
	24		09-24-1991	Giordano, et al.	—	+	
	242		10-08-1991	Goodwin		+	
			11-05-1991	Petrucci, et al.		 	
	243		11-12-1991	Laughlen, et al.			
	244		11-19-1991	Murrell			
	24			Petrucci, et al.			
	240		12-31-1991	Federsen Federsen	$\neg \neg$		
	24	7 USD-323203	01-14-1992				
	24		02-11-1992	Yanou, et al.	\dashv	/	
 	24		02-11-1992	Hirman, et al.		/	
} 	25		03-17-1992	Kapec, et al.	-44	V	
 /-	25		08-04-1992	Woodruff	—		
 			08-25-1992	Igami, et al.	ل_	<u> </u>	
L	25	2 USD-328942					

Classication

				· · · · · · · · · · · · · · · · · · ·	CIWATICATOA
BK	253	USD-330746	11-03-1992	Zazulia	
	254	USD-331446	12-01-1992	Gidman	
	255	USD-331963	12-22-1992	Williams	
	256	<u> </u>	12-29-1992	Chez	
	257	USD-336011	06-01-1993	Bannigan	
			06-22-1993		
\longrightarrow	258			Raunkjaer	
	259		08-24-1993	Spokoiny	
	260_		03-31-1993	Taylor, et al.	
	261	USD-342986	01-04-1994	Kurth	<u> </u>
[262	USD-343673	01-25-1994	Bannigan	<u> </u>
	263	USD-344322	02-15-1994	Kasner, et al.	<u> </u>
	264	USD-344328	02-15-1994	Price	
	265	USD-345412	03-22-1994	Myrvik, et al.	
	266		05-31-1994	Douglas	t —
 	267	USD-348305	06-28-1994	Bannigan	
	268	USD-349567	08-09-1994	Miller, et al.	
			4		
 	269		09-27-1994	Hansen	
<u> </u>	270	USD-352091	11-01-1994	LeMire, et al.	
	271	USD-353440	12-13-1994	Ito, et al.	
	272		01-24-1995	Heligman	<u> </u>
	273	USD-354796	01-24-1995	Smith, Sr.	
	274	USD-356852	03-28-1995	Janik, et al.	
	275	USD-357058	04-04-1995	Engelhard	
	276	USD-357737	04-25-1995	Spearman	
 	277	USD-358868	05-30-1995	Hembree, et al.	T
 -	278		08-01-1995	Albertson	
	279		10-31-1995	Schafer, et al.	
 				Morem, et al.	
 	280	USD-363760	10-31-1995		
	281	USD-365380	12-19-1995	Wilcock	
	282	USD-366095	01-09-1996	Farley	
L	283		01-23-1996	Stewart	
	284	USD-370522	06-04-1996	Colburn	
	285	USD-370711	06/11/1996	Serenko, et al.	
	286	USD-372069	07-23-1996	Brancazio, et al.	
	287	USD-372515	08-06-1996	Douglas	
	288	USD-372760	08-13-1996	Brancazio, et al.	
 	289	USD-374064	09-24-1996	Brancazio, et al.	
 	290	USD-374476	10-08-1996	Page, et al.	
\vdash			10-22-1996	Kahana	
\vdash	291	USD-374911			
	292	USD-374912	10-22-1996	Engelander	 -
	293		01-21-1997	Hembree, et al.	
	294	USD-377677	01-28-1997	Robbins	
	295	USD-377826	02-04-1997	Robbins	
	296	USD-380535	07-01-1997	Joergensen	
		USD-380536	07-01-1997	Ellwood	
		USD-383192	09-02-1997	Johnson	
		USD-384128	09-23-1997	Scott	
	300		10-21-1997	Edman, et al.	
	301		11-04-1997	Ullmann	
 	302		11-04-1997	Harrison, et al.	
 	303		11-11-1997	Nurse, Jr.	
 				Clack, et al.	
	304		11-11-1997	Pesa	
\vdash		USD-388154	12-23-1997		
	306		12-30-1997	Burchard, et al.	
$\square \bot \bot$	307		02-10-1998	Ullmann	
	308	USD-390910	02-17-1998	Sundquist	
	309	USD-391338	02-24-1998	King	
	310	USD-391624	03-03-1998	King	
	311	USD-392732	03-24-1998	Veloz	
	312		07-14-1998	Hsu	
	313		09-01-1998	Strand	
	314		09-15-1998	Schroer	
				Hayes, et al.	
 		USD-398369	09-15-1998		
		USD-398703	09-22-1993	Hayes, et al.	
	317		10-06-1998	Golan	
		USD-399300	10-06-1998	Goodson	
	319		10-20-1998	Gillingham, et al.	· · · · · · · · · · · · · · · · · · ·
	320	USD-401306	11-17-1998	Ward, et al.	V

RK	321 USD-401684	11-24-1998	Shelton, et al.	1
1-3/2	322 USD-402734	12-15-1998	Rao, et al.	
	323 USD-402735	12-15-1998	Kott	
	324 USD-403414	12-29-1998	Shelton, et al.	
\vdash	325 USD-403416		Shelton, et al.	
 		12-29-1998		
 	326 USD-403740	01-05-1999	Kott, et al.	
	327 USD-403741	01-05-1999	Rao, et al.	
	328 USD-404113	01-12-1999	Denkewicz, Jr., et al.	-
	329 USD-404114	01-12-1999	Denkewicz, Jr., et al.	
	330 USD-404796	01-26-1999	Miller, et al.	
	331 USD-404797	01-26-1999	Jameson, et al.	
	332 USD-405156	02-02-1999	Vanderhoef	
	333 USD-405157	02-02-1999	Hayes, et al.	
1	334 USD-405867	02-16-1999	Denkewicz, Jr., et al.	
	335 USD-405868	02-16-1999	Denkewicz, Jr., et al.	
	336 USD-406314	03-02-1999	Denkewicz, Jr., et al.	
 	337 USD-406315	03-02-1999	Rao, et al.	T
 	338 USD-406316	03-02-1999	Rao, et al.	
 	339 USD-406874	03-16-1999	Farley	
 				
 	340 USD-407462	03-30-1999	Bishop, et al.	
 	341 USD-407808	04-06-1999	Nepsund, et al.	
	342 USD-409715	05-11-1999	Cruz, et al.	-
\vdash	343 USD-410064	05-18-1999	Hunter, et al.	
	344 USD-410274	05-25-1999	Bradshaw	
	345 USD-410520	05-01-1999	King	
	346 USD-410727	06-08-1999	Khamis, et al.	
	347 USD-410728	06-08-1999	Kurth, et al.	
	348 USD-412552	08-03-1999	Burrows	
	349 USD-412963	08-17-1999	Nelsen, et al.	
	350 USD-413961	09-14-1999	Bassett .	
	351 USD-414544	09-28-1999	Ward, et al.	
	352 USD-415245	10-12-1999	Miller, et al.	
	353 USD-416072	11-02-1999	Douglas	1
1	354 USD-416308	11-09-1999	Ward, et al.	
	355 USD-428128	07-11-2000	Gillingham, et al.	
 	356 USD-431629	10-03-2000	Meyers	
 		10-03-2000	Tien Lin	
 	357 USD-432205			
	358 USD-432622	10-24-2000	Thompson, et al.	
	359 USD-433094	10-31-2000	Magnusson, et al.	
	360 USD-435084	12-12-2000	Northen, et al.	
	361 USD-435631	12-26-2000	Janik, et al.	
	362 USD-435640	12-26-2000	Oussoren	<u> </u>
	363 USD-438282	02-27-2001	<u>Liu</u>	ļ
	364 USD-438592	03-06-2001	Gaston, et al.	
	365 USD-439304	03-20-2001	Tilp, et al.	
	366 USD-439963	04-03-2001	Gieseke, et al.	
	367 USD-440293	04-10-2001	Gieseke, et al.	
	368 USD-440294	04-10-2001	Bilek	
	369 USD-440295	04-10-2001	Нопта	
	370 USD-441048	04-24-2001	Archer	
 	371 USD-441421	05-01-2001	Aldred, et al.	
	372 USD-441422	05-01-2001	Jensen	1
 	373 USD-444536	07-03-2001	Farley	
 	374 USD-449878	10-30-2001	Bjersten	1
} 		11-20-2001	Song	
 	375 USD-450826			
 	376 USD-452552	12-25-2001	Spiegelman, et al.	
	377 USD-453952	02-26-2002	Gaston, et al.	
	378 USD-454173	03-05-2002	Almasian, et al.	
L	379 USD-454615	03-19-2002	Neal	
	380 USD-455194	04-02-2002	Kurth, et al.	
	381 USD-455814	04-16-2002	Magnusson, et al.	
	382 USD-455826	04-16-2002	Gillingham, et al.	
	383 USD-456485	04-30-2002	Hiranaga, et al.	
	384 USD-456486	04-30-2002	Kurth, et al.	
	385 USD-456877	05-07-2002	Wilder, et al.	
	386 USD-457231	05-14-2002	Crafoord	
 	387 USD-457596	05-21-2002	Guzman, et al.	W
	388 USD-458341	06-04-2002	Pratt	
				

		FOREIGN PATEN	T DOCUMENTS	Classitection
	392 USD-46525	3 11-05-2002	Hiranaga, et al.	
	391 USD-46412	10-08-2002	Xu, et al.	,
1	390 USD-46352	09-24-2002	Ellis, et al.	
8K	389 USD-45867	06-11-2002	Bosyi, et al.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
				Clarmoruna

01 Ah.

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS'	Cite No.1	FOREIGN PATENT DOCUMENT Country Code ³ Number ⁴ Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Peges, Columns, Lines Where Relevant Passages or Relevant Figures Appear	10
BK	393	CH 674944 A5	08-15-1990	Losfelt		abstract
77	394	DE 1218237	06-02-1966	Knoll		abstract
	395	DE 3327804	04-18-1985	Pavlin		abstract
	396	DE 3622020 A1	01-07-1988	Ott		abstract
	397	EP 0 618 393 A1	03-16-1994	Voss, et al.		abstract
7	398	EP 0 023 548 A1	06-12-1980	Pelt		T-claims
	399	EP 0 616 827 A1	02-25-1994	Straubel, et al.		T-Claims
	400	EP 1 216 740 A1	12-12-2001	Jainek		abstract
\neg	401	FR 2596134 A1	09-25-1987	Reche		abstract
	402	GB 2 198 963	06-29-1988	Catchpole		
	403	GB 2 261 042	05-05-1993	Guest		
	404	SU 631 742	11-29-1978	Nevskoe Mech Eng		abstract
	405	WO 01/26772 A2	04-19-2001	Reid	V	
EXAMINE	17	en Kurtz		DATE CONSIDERED 12-2	2005	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). ²See Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-SB08 (Revised for P&G use 10/8/2003)